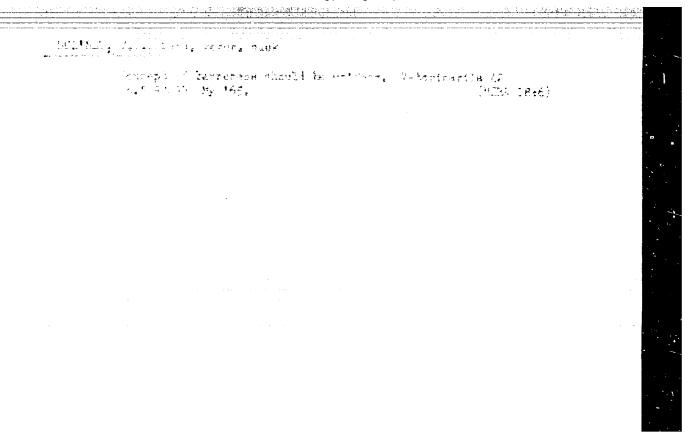
"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041152



OSTAPENKO, K.; KRYKIN, A.; DUL'NEY, V.I.; OSETROV, V.S.; TOPALYAN, K.M.; FEDOROV, Iu.; YATSISHIN, A.I.; TITOK, V.A.; YEPIPANOV, G.; RASTEGAYEV, Yu.

Controlling little-known animal diseases. Veterinariia 42 no.8:118-124 Ag '651' (MIRA 18:11)

GIDALEVICH, M.G.; DUL'HEVA, I.P.; ZASLAVSKIY, A.S.; UL'YANKIW, M.G.

Removal of water from washed grapes during the manufacture of juice. Kons. i ov. prom. 14 no.615-7 Je 159.

(MIRA 12:8)

1. Moldavskiy nauchno-issledovatel'skiy institut pishchevoy promyshlen-nosti.

(Orape Juice)

2

POPOVSKIY, V.G.; GIDALSVICH, M.G.; DUL'MEYA, I.P.

Using new equipment for the manufacture of grape juice.

Kons.i ov.prom. 14 no.12:8-12 D '59. (MIRA 13:3)

1. Moldavskiy nauchno-issledovatel skiy institut pishchevoy promyshlennosti.

(Grape Juice)

POPOVSKIY, V. G.; GIDALEVICH, M. G.; DUL'HEYA, I. E.; ZASLAVSKIY, A. S.;
Prinimali uchastiye: UL'TANKIN, M. G.; ZELENSKAYA, M. I.;
SHCHELOKOVA, I. M.; DANILOV, M. A.; SHVETS, A. T.

Improving the technology of grape juice manufacture. Trudy MNIIPP 1:9-37 '61. (MIRA 16:1)

(Moldavia-Grape juice)

GIDALEVICH, M. G.; DUL'MEVA. I. P.; ZASLAVSKIY, A. S.; UL'YANKIN, M. G.; Prinimali uchastiye: ZELENSKAYA, M. I.; SHCHELOKOVA, I. M.; DANILOV, M. A.; SHVETS, A. G.

Investigating the efficiency of grape washing. Trudy MNIIPP 1: 39-44 61. (MIRA 16:1)

(Moldavia-Grape juice)

UL'YANKIN, M. G.; Prinimeli uchastiyo: GIDALEVICH, M. G.;
DUL'HEYA, I, P.; RASLAVSKIY, A. S.; SHARALINA, M. S.;
CIMILENKO, M. M.; PROKHOROVICH, L. Ye.

Separators for juice manufacture. Trudy MNIIPP 1:49-62 (MIRA 16:1)

(Separators(Machines)) (Fruit juices)

GASYUK, G. N.; DUL'HEVA, I. P.; POPOVSKIY, V. G.

Effect of ultrasomic waves on the rate of tartar precipitation from grape juice. Trudy MNIIPP 1:75-82 '61.
(MIRA 16:1)

(Ultrasonic waves—Industrial applications)
(Grape juice)

GASYUK, G. N.; POPOVSKIY, V. G.; DUL'NEVA, I. P.; LEVINA, M. V.

Speeding the crystallisation of tartar in the treatment of grape juice with ultrasonic waves in tanks. Trudy MHIIPP 1: 83-87 '61. (MIRA 16:1)

(Grape juice)
(Ultrasonic waves—Endustrial applications)

POPOVSKIY, V. G.; GIDALKVICH, M. G.; DUL'NEVA, I. P.; Prinimeli uchastiye: ZELENSKAYA, M. I.; SHCHELOKOVA, I. M.

> Tartar crystallisation during partial freezing of grape juice. Trudy MNIIPP 1:89-98 '61. (MIRA 16:1)

> > (Grape jules) (Crystallisation)

GASYUK, G.N.; DUL'MEVA, I.P.; LEVINA, N.V.

Manufacture of clarified grape juice by medius of a simplified technology with the application of ultrasonic waves. Trudy MMIIPP 2156-66 '62. (MIRA 16:4) (Grape juice) (Ultrasonic waves—Industrial application)

DULINEVA. I.P.; GASYUK, G.N.; POPOVSKIY, V.G.; LEVINA, M.V.

Comparative study of the various methods of graps juice clarification. Trudy HN1IPP 5:14-28 '64.

(HIRA 19:1)

CASYUK, G.N.; DBL'NEVA, I.P.; LEVINA, M.V.; KIR'YANOV, M.I.

Experience in the production of clarified grape juices
by a simplified technology with the application of ultrasonic
waves and use of the available factory equipment. Trudy MNIPP
5128-32 164.

(MIRA 19:1)

DULINEVA, I.P.; LEVINA, M.V.; GASYUK, G.N.

Effect of some factors on the crystallisation of potassium tartrates. Trudy MNIIPP 5250-54 64. (MIRA 19:1)

LADYZHANSKIT, I.A.; POPOVSKIY, V.G.; GASYUK, G.N.; DUL'NEVA, I.P.; ZELENSKAYA, M.I.

Economic efficiency of using the simplified technology in grape juice production. Trudy MMIIPP 5:91-96 '64.

(MIRA 19:1)

7(6), 24(4) AUTHORS: 90V/20-721-4-17/54 Veynberg, E. V., Dul'neva, N. M., Meyngard, P. N.,

Yakovenko, V. L.

TITLE:

A Polar Spectrohydronephelometer (Polyarnyy spektrogidro-

nefelometr)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 121, Nr 4, pp 634-636

(USSR)

ABSTRACT:

This paper gives a short description of a polar spectrohydronephelometer which was designed in 1956 and of some results
of the measurements by means of this apparatus. The polar
hydronephelometer — an apparatus for transparency measure—
ments — consists of a vessel filled with the water to be
investigated. The objectives of the condenser and of a photometric device are immersed in this water. The luminosity of
the ground glass of the photometer may be changed by 100 times
by removal or turning of the measuring lamp and by introduction of a neutral light filter. The condenser sends a narrow
cone of light into the water. If the decrease in light intensity is measured in a turbid water, the light of the condenser is directed straight into the objective of the photo-

Card 1/3

A Polar Spearohydronephelometer

807/20-121-4-17/54

meter. The intensity of the scattered light is measured under various angles \(\textit{P} \) with respect to the beam of the condenser. By some measurements of this kind the indicatrix and the scattering index o can be measured. The absorption index k may be deduced from the measured values of the index E of the decrease of the light intensity and of d. The measurements in the various parts of the spectrum are carried out by means of color filters. In order to determine the degree of the depolarization of light by water, the condenser was furnished with a polarizer and the photometric apparatus with an analyzer. The apparatus discussed in this paper makes it possible to investigate the properties of sea water and river water the extinction coefficient & of which lies within the interval 0,1 - 6 m⁻¹. The indicatrices may be measured for any angle between 0,5° and 145° and for 180° (backward scattering). According to many measurements, the properties of the investigated sea water vary considerably near the shore. The indicatrices of the scattering of natural waters are considerably elongated. The intensity of the scattered light has a minimum at scattering angles of $\sim 120^\circ$. For other regions of the sea, the shape of the scattering indicatrix depends only

Card 2/3

A Polar Spectrohydronephelometer

SOV/20-121-4-17/54

slightly on the transparency of the water. The light which is scattered by the water is depolarized most at angles of 90 - 120°. The degree of the depolarization of light by water depends in a high degree on the initial orientation of its polarization plane, There are 4 figures and 2 references, 2 of which are Soviet.

PRESENTED:

March 3, 1958, by V. V. Shuleykin, Academician

SUBMITTED: March 8, 1958

Card 3/3

DULINNA, V.R.; SOLOVIOV, N.V.

Basic results of work in introducing and breeding grapes in the Kiev area. Trudy Bot. sada AN UREN 1:108-127 149. (MIRA 10:8)
(Kiev Province-Viticulture)

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041152

DULNIEC, W.

Some experiences and conclusions concerning purchasing. p. 4. (ROLNIK SPOLDZIELCA. Vol. 9(i.e. 10) no. 14, Apr. 1957, Poland)

SO: Monthly List of East European Accessions (REAL) LC, Vol. 6, no. 6, June 1957, Uncl.

Country : U35R P-5 CATLCORY A33. JOUR. | RZB101., No. 19, 1958, No. 87704 AUTHOR : Yashkin, I. I.; Dulo, V. D. inst. TITLE : Procedures of Determining the Occurence dange and Puriods of Flight of the White American hoti. . ORIG. PUB. : Lashchita rast. of vredit. I bolezney, 1957, No 1, 40
ABSTRACT : It was found that tales of the American white Noth [Fall Web-worm, hyphantria cunea] are attracted by Firstn Semales that are kept cuptive. This has been utiin a for discovering midi of the pest which, in a number of instances, have been detected in locations where prior, rejected and painstaking, search had been futile. CARD: -

TELENGA, N.A., doktor biolog. nauk; SIKURA, A.I., kand. biolog. nauk; DULO, V.Yu.; SMETNIK, A.I.

Using beauverin with DDT for controlling the Coloredo beetle.

Zashch. rast. ot vred. i bol. 8 no.4:48-49 Ap '63. (MIRA 16:10)

1. Nachal'nik Zakarpatskoy karantinnoy inspektsii (for Dulo). 2. Direktor Zakarpatskoy oblastnoy karantinnoy laboratorii (for Smetnik).

(Ukraine—Potato beetle—Riological control) (Beauveria) (DDT (Insecticide))

(for Smetnik).

DULO, V.Yu.; SMETNIK, A.I.

In the Transcarpathian Laboratory. Zashch. rast. ot vred. i bol. (MIRA 17:5)

1. Nachal'nik Zakarpatskoy karantinnoy inspektsii (for Dulo).
2. Direktor Zakarpatskoy laboratorii karantinnoy laboratorii

ROZANOVA, M.A.; DULO, V.Yu.; SMETNIK, A.I.

Disinfecting fruit against American fall webworm. Zashch. rast. ot vred. i bol. 9 no.8:43-44 '64. (MIRA 17:12)

1. Starshiy toksikolog TSentral'noy karantinnoy laboratorii (for Rosanova). 2. Direktor Zakarpatskoy karantinnoy laboratorii (for Smetnik).

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041152

DULOY, A.

USSR/General Problems.

: Ref Zhur - Khimiya, No 10, 1957, 33384

Author

Abs Jour

: Krylov, I., Dulov, A.

Inst Title

: Participation of D.I. Mendelyeyev in the Consultations

on the Sponkneous Combustion of Yarn and Silk.

Orig Pub

: Pozharnoye Delo, 1957, No 1, 8-9.

Abstract

: No abstract.

Card 1/1

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041152

Category: USSR

B-9

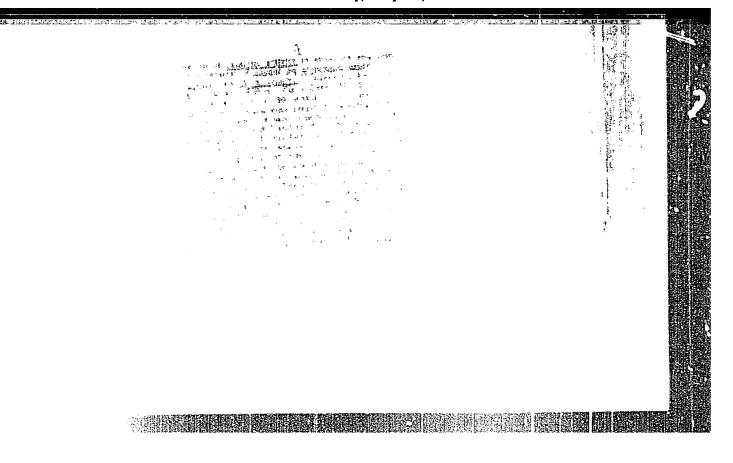
Abs Jour:

Zh--Kh, No 3, 1957, 7583

reaction the activity a decreases in the order Ni > Cr > Zn; for Ni catalysts a decreases in the order NiS > NiSe > NiO; for Cr catalysts, in the order CrSe > CrS > Cr2O3. In the opinion of the authors, the observed changes in activity and selectivity as one proceeds from the O- to the S- and Se-derivatives can be explained on the basis of the multiplet theory of catalysis.

Card : 2/2

-37-



The Production of Corundum at Low Temperatures and Its Catalytic Activity

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They show that hydrothermal production causes no changes in the macrostructure of the corundum. The corundum produced in this manner had a higher bulk weight, but it was less active than the samples produced at higher temperatures. This is explained by its water content (0.64%), which is ten times greater than would be necessary for the production of a monolayer. Corundum has an activity that is less by two orders of magnitude than that of other Al₂O₃-phases. Individual samples partly had a dehydrogenizing and partly dehydreting effect.

dehydrogenizing and partly dehydrating effect. Some of the samples also introduced cracking reactions. The authors intend to continue the series of experiments with synthetic diaspore. There are 2 tables and 6 references, 3 of which are Soviet.

ASSOCIATION:

Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences, USSR)

SUBMITTED:

April 14, 1958

Card 2/2

KOTLYANEVSKIY, I.L.; FISHER, L.B.; DULOV, A.A.; SLIEKIN, A.A.

Oxidative polycondensation of p-diethynylbensens. Isv.AN SSSR Otd.khim.nauk no.51950-951 My '60. (NIBA 13:6)

l. Institut khimii Vostochno-Sibirskogo filiala Sibirskogo otdeleniya Akademii mauk SSER. (Bensene)

EdOb3 s/020/60/135/003/027/039 BO16/B054 also 1164 Nesmeyanov, A. N., Academician, Rubinshteyn, A. M., Dulov, A. A., Slinkin, A. A., Rybinskays, M. I., and Slonimskiy, C. L. 15.8114 AUTHORS : Study of Catalytic Properties of Polymers Produced on the Basis of Methyl-B-chloro-winyl Ketone of Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 3, TITLE: TEXT: The authors report on the continuation of their investigations of PERIODICAL the properties of polymers produced on the basis of methyl. 6. Chloro-winyl ketone (Refs. 1,2). These polymers show important electrical and magnetic properties; besides, they activate the oxidation and dehydrogenation of alcohols. In the present paper, the authors studied their physical properties: Particularly their catalytic activity. Nethyl-6-chloro-vinyl ketone polycondenses itself automatically when standing for 20-25 days kerone polycondenses leseri successfully when standing for cU-c> distill simultaneous separation of HCl. The formula $H(-c-cH-)_n$ Cl is

86043

Study of Catalytic Properties of Polymers S/920/60/135/003/027/039 Produced on the Basis of Methyl-\$-chloro-vinyl B016/B054 Ketone

ascribed to the resulting mixture of polymers. The best polycondensation is attained in a sealed ampoule. Otherwise, too much triacetyl benzens is formed. On prolonged heating to 400°C in vacuo (12 torr), the polymers change (with simultaneous separation of water). Their carbon content increases. Apparently, there occurs a croton polycondensation on two adjacent acetyl groups each within the chain, or a polycondensation between individual chains by acetyl groups. The authors assume that practically both processes take place, since a certain oxygen amount of the carbonyl groups is always left in the polymer. The authors studied the properties of polymers heated with and without ferris chloride at 400°C/12 torr for 6 h. Table 2 and Fig. 1 show their most important physical characteristics as well as those of activated carbon and graphite. A comparison with activated carbon (natural carbon polymer) shows that the polymers investigated have a very small specific surface (S) and a relatively large amount of unpaired spins. Fig. 1 shows data of the change in specific electrical conductivity (d) with temperature Therefrom, the authors calculated the activation energy of the conductivity (Eg. Table 2). They consider it possible that these polymers are semiconductors with a Card 2/4

860L3

Study of Catalytic Properties of Polymers S/020/60/135/003/027/039 Produced on the Basis of Methyl-\$-chloro-vinyl B016/B054 Ketone

forbidden-zone width of 1.6 ev in the temperature range of $160-350^{\circ}$ C. The catalytic activity of the polymers was studied, besides that of activated carbon and graphite, by the example of oxidation of toluene with air to benzene and benzaldehyde in a continuous apparatus at $370-380^{\circ}$ C. The authors conclude from the results that the polymers are very active in this reaction. They think it important that the polymer with a specific surface of ~ 0.5 m²/g delivers the same yield of oxide products as activated carbon with a surface of 600 m²/g, i.e., the specific activity of the polymer exceeds that of activated carbon by three orders of magnitude. The authors point out that it is unclear as yet what is the reason for such an increase in activity of the polymer. They think it possible that this activity is due to an increased concentration of spins on the very small surface of the polymer. Further parallel catalytic and physical investigations are recommended by the authors. There are 1 figure, 3 tables, and

Card 3/4

86043

Study of Catalytic Properties of Polymers \$/020/60/135/003/027/039 Produced on the Basis of Methyl-B-chloro-winyl B016/B054 Ketone

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental-organic Compounds of the Academy of Sciences USSR). Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of

Organic Chemistry imeni N. D. Zelinskiy of the Academy of

Sciences USSR)

SUBMITTED: August 14, 1960

Card 1/4

MATVEYEVA, I.V.; SLINKIN, A.A., kand.khim.nauk, otv. red.; DULOV, A.A., mladshiy nauchnyy sotr., nauchnyy red.; PRUSAKOVA, T.A., tekhn. red.; RYLINA, Yu.V., tekhn. red.

[Heterogeneous catalysis in organic chemistry; bibliographic index of Soviet and foreign literature (1958-1960)] Geterogennyi katalis v organicheskoi khimii; bibliograficheskii ukazatel' otechestvennoi i zarubeshnoi literatury (1958-1960). Moskva, Izd-vo Akad.nauk SSSR, 1962. 275 p. (MIRA 15:7)

1. Akademiya nauk SSSR. Institut organicheskoy khimii. Sektor seti spetsial'nykh bibliotek.

(Bibliography—Catalysis)

39374 s/190/62/004/002/002/021 B110/B101

15 8340

AUTHORS:

Kotlyarevskiy, I. L., Fisher, L. B., Dulov, A. A., Slinkin, A. A., Rubinshteyn, A. M.

TITLE:

Synthesis and some physical properties of poly-p-diethynylbensene

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, v. 4, no. 2, 1962,

TEXT: Poly-p-diethinyl benzene with alternating ternary bonds and phenylene rings was synthesized from p-diethinyl benzene according to Yu. S. Zal'kind (Zh. obshch. khimii, 6, 530, 1936). The diethyl benzene mixture obtained during styrene production was dehydrogenated to divinyl benzene, brominated, dehydrobrominated, and polycondensed in water-alcohol or water-dioxane at 20 - 40°C in the presence of CuCl, NH₄Cl, and O₂ to orange-red, powdery

oligomer (I) insoluble in water and organics:

Card 1/5

It explodes under rapid heating to 120 - 130°C in N₂ flow, but is no longer explosive in the form of pressed tablets up to 140°C in N₂ flow. Thermogravimetric and quantitative studies showed that the color change (to black) at 400°C was not due to decomposition but to intramolecular polymerization and structuration processes. The conductivity of tablets pressed at 5000 structuration processes. The conductivity of tablets were heated in N₂ flow for 20 hr. The conductivity is described by: O = 6 exp (-E/kT). Resistance and activation energy of conductivity decrease with increasing heating temperature (220 - 600°C) 6×10°C ohm from E-O.1 ev at 600°C). Ultraviolet irradiation of a sample heated at 220°C raises the conductivity card 2/5

3374 5/190/62/004/002/002/021

B110/B101

Synthesis and some physical...

reversibly by some orders. This effect decreases with increasing heating temperature (400°C) and disappears at 500 and 600°C completely. The sign of the thermo-emf and the reversible resistance decrease during oxygen adsorption confirm the hole character of the conductivity. The specific magnetic susceptibility of the initial oligomer determined between 20 and 160°C at H = 3500 - 4500 cersteds was $\chi = -0.4 \cdot 10^{-6}$, after pressing at 5000atm: $\chi = -0.2 \cdot 10^{-6}$. The maximum number of unpaired electrons exists on heating to 220°C, maximum & value at 400°C, while ferromagnetic H dependence on & was observed. The intensities of the epr signal as dependent on heating (2 hrs) in vacuo and N2 (0.5% 02) pass through a maximum at ~220°C. X-ray studies with an YPC-55(URS-55) device showed increasing crystal formation (favored by pressing) with increasing heating temperature. The electric and magnetic properties of slightly heated amorphous samples are determined by individual unpaired electrons and energetic barriers between the loosely bound, conjugated sections while ultraviolet irradiation increases the number of current carriers. At higher temperatures, the individual conjugated sections are combined to microcrystalline domains, and the number of electrons which have not yet entered the domain of strong interaction Card 3/5

33374 \$/190/62/004/002/002/021 Synthesis and some physical...
B110/B101

decreases. At a certain stage, further crystal growth gives rise to formation of diamagnetic graphite structures. At 400, 500, 600°C, electric resistance and activation energy of conductivity decrease with increasing heating temperature due to the presence of strongly interacting electrons. Two types of structurally different polymers are likely to exist. The conversion of the orange-colored, explosive initial polymer at 200°C is likely to proceed according to:

$$-C = C - \left(C = C - \left(C = C\right)_{n} - C = C\right)$$

$$-C = C - \left(C = C - \left(C = C\right)_{n} - C = C\right)$$

$$-C = C - \left(C = C - \left(C = C\right)_{n} - C = C\right)$$

$$-C = C - \left(C = C - \left(C = C\right)_{n} - C = C\right)$$

Card 4/5

33374

Synthesis and some physical...

S/190/62/004/002/002/021 B110/B101

At higher temperatures, domains are formed with ferromagnetic electron interaction due to cross linking which are superposed by diamagnetic interaction on further crystallization. Tal'roze is mentioned. There are 4 figures, 4 tables, and 14 references: 11 Soviet and 3 non-Soviet. The two references to English-language publications read as follows: A. S. Hay, J. Org. Chem., 25, 1275, 1960; D. D. Eley et al., Disc. Faraday Soc., 28, 55, 1959.

ASSOCIATION: Institut khimii Vostochno-sibirskogo filiala AN SSSR (Institute of Chemistry of the East Siberian Branch AS USSR). Institut

organicheskoy khimii im. N. D. Zelinskogo AN SSSR (Institute

of Organic Chemistry imeni N. D. Zelinskiy AS USSR)

SUBMITTED:

January 30, 1961

Card 5/5

37384 \$/020/62/143/006/017/024 B106/B138

15,5340

AUTHORS:

Dulov, A. A., Slinkin, A. A., Liogon'kiy, B. I.,

Rubinshteyn, A. M.

TITLE:

The importance of conjugation and ordering to the semiconductor properties of polymers

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 143, no. 6, 1962, 1355-1357

TEXT: To study the role of the degree of conjugation and the total structure of polymers in the formation of semiconductor properties, investigation was made of the electric, magnetic, and crystallographic properties of polyazophenylenes and aromatic polymers, which contain the groups -CH₂- and -CH₂-CH₂- between the benzene rings. Table 1 shows the

results. The semiconductor properties of polymers containing conjugated bonds are determined by two rival factors: (1) the properties of individual macromolecules (degree of delocalization of \(\pi\)-electrons, flexibility of the chain); and (2) the properties of the solid as a whole (packing density, character of electron interaction between macromolecules). The types of electron interaction in polymers with conjugated bonds are

Card 1/3

S/020/62/143/006/017/024 B106/B138

The importance of conjugation ...

dealt with in a communication by I. L. Kotlyarevskiy, L. B. Fisher, A. A. Dulov, A. A. Slinkin, A. M. Rubinshteyn (Ref. 6: Yysokomolek. soyed., 4, no. 1 (1962)). Where the degree of conjugation of the polymer is not too low, the electric characteristics are determined by the second factor. This is confirmed by the following: if methylene bridges, which reduce conjugation along the chain, are introduced in the macromolecule (polymer 2 in Table 1), the semiconductor properties are not destroyed but rather intensified (E decreases), as the mobility of chains and the packing density increase, promoting electron interaction between the chains. With introduction of the group -CH2-CH2- (polymer 3), the reduction of conjugation is so intense that it is no longer compensated by an increase in packing density. In all the polymers investigated, the effect of relaxation polarization (reversible decrease of electrical conductivity on application of direct current) was observed. It is due to the translation of charged sectors of the polymer chains in the electrostatic field. The temperature of this polarization (200°C) is 30-50°C lower for polymer 3, than for the others, which shows that chain mobility is highest with this polymer. Similar results were obtained for the electric properties of polyferrocenes (Ref.7) A. A. Dulov, A. A. Slinkin, A. M. Rubinshteyn, Vysokomolek. soyedin., Card 2/4

The importance of conjugation ...

S/020/62/143/006/017/024 B106/B138

4 (1962)). A. A. Berlin assisted in the present work. There are 2 figures and 1 table. The English-language references read as follows: D. D. Eley. G. D. Parfitt, Trans. Farad. Soc., 51, 1529 (1955); M. Hatano, S. Kambara, S. Okamoto, J. Polymer Sci., 51 (156), 26 (1961).

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences USSR). Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics of the Academy of Sciences USSR)

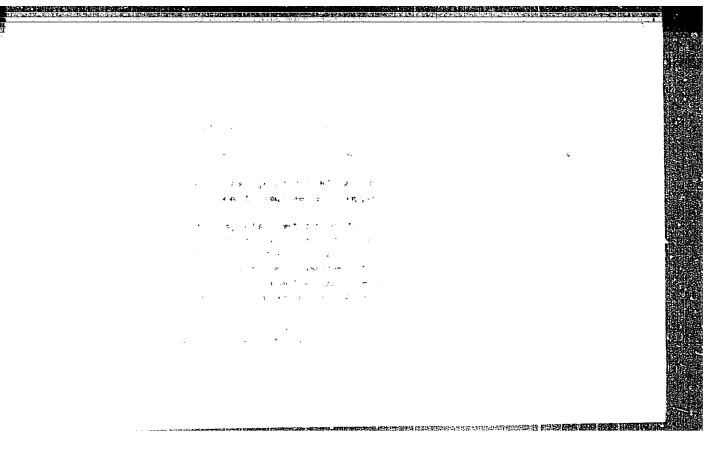
PRESENTED: January 5, 1962, by B. A. Kazanskiy, Academician

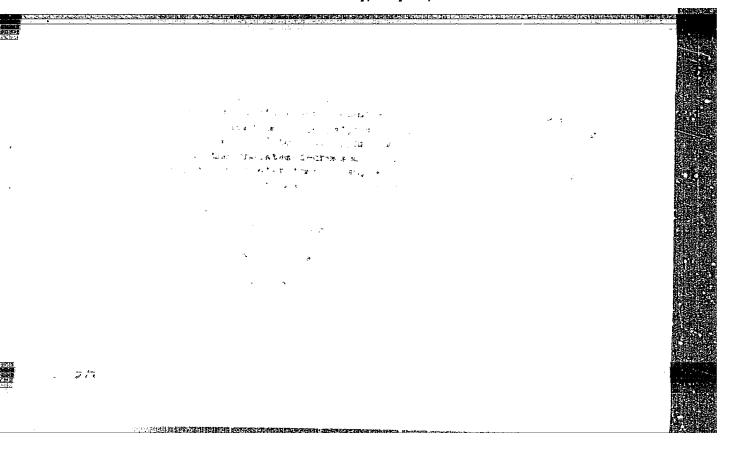
SUBMITTED: January 2, 1962

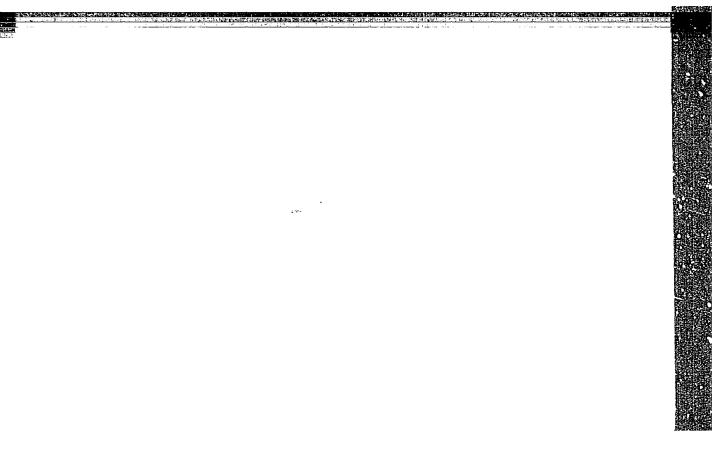
Legend:to Table 1: (I) Structural formula of the polymer; (II) molar weight; (IN) activation energy of the electrical conductivity, Eq. (120 - 250°C), ev; (IV) oo, enm⁻¹·cm⁻¹; (V) irreversible change in o after heating; (VI) number of unpaired spins per g of B (on the basis of epr); (A)

TAGER, Anna Aleksandrovna. Prinimali uchastiye: TSVANKIN, D.Ya.;
BORISOVA, T.I.; BURSHTEYN, L.L.; SLINKIN, A.A.; DULOV, A.A.;
MIKHAYLOV, G.P., red.; RÖGAYLINA, A.A., red.; SHPAK, Ye.G.,
tekhn. red.

[Physical chemistry of polymeris Piziko-khimiia polimerov. Moskva, Goskhimizdat, 1963. 528 p. (MIRA 16:12) (Polymers)







DULOV, A.A.; SLINKIN, A.A.; RUBINSHTEYN, A.M.; KOTLYAREVSKIY, I.L.

Electric conductivity, electron paramagnetic resonance spectra, and the structure of polyarylene-polyacetylenes. Izv. AN SSSR. Ser. khim. no.11:1910-1920 N '63. (MIRA 17:1)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR. i Institut khimicheskoy kinetiki i goreniya Sibirskogo otdeleniya Akademii nauk SSSR.

DULOV, A.A.; SLINKIN, A.A.; RUBINSHTEYN, A.M.

Electric and magnetic properties of thermally treated polymers based on ferrocene. Vysokom. soed, 5 no.10:1441-1446 0 163. (MIRA 17:1)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR.

ACCESSION NR: AP4010036

5/0062/64/000/001/0026/0034

AUTHOR: Dulov, A. A.; Slinkin, A. A.; Rubinshteyn, A. H.

TITLE: Electric and magnetic properties of products from the thermal treatment of polymethylvinylkotone

SOURCE: AN SSSR, Izvestiya. Ser. khim., no. 1, 1964, 26-34

TOPIC TAGS: polymethylvinylketone, electric properties, magnetic properties, crystallinity, electric conductance, EPR spectra, polymethylvinylketone adsorption of oxygen, semiconductor, p type semiconductor, n type semiconductor, polymethylvinylketone thermal treatment

ABSTRACT: The electric conductance, nature of the EPR signal and crystallinity of polymers obtained by heating polymethylvinylketone at temperatures up to 870C in a nitrogen, hydrogen or air atmosphere were studied. The electric properties and nature of the effect of oxygen on the EPR signal and conductance differ sharply in polymethylvinylketone heated at low temperatures (400—500C) from those

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ACCESSION NR: AP4010036

of the polymer heated to 670—870C: with increasing temperature oxygen has an increasing effect on the intensity and width of the EPR signal; the affect of oxygen on the conductance decreases; asymmetric EPR lines appear because of the graphitic nature acquired by the polymer particles. Below 570C the polymer, in a vacuum, behaves as an n-type semiconductor; in air, as the p-type. From the effects on the EPR spectra it is concluded that the adsorption of oxygen at temperatures up to 500C is due to chemosorption, but in the 570—600C range it is both chemical and physical adsorption. In the polymer treated at low temperature, the electric conductance is strongly affected by oxygen and is determined by the electron exchange between areas with a high degree of conjugation in the polymer. On increasing the temperature of treatment, the formation of unpaired electrons in the polymer is not due to a rupture of the C - C bonds, but to the formation of complexes with transfer of the charge. Orig. art. has: 7 figures and 3 tables.

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ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii Nauk SSSR (Institute of Organic Chemistry, Academy of Sciences SSSR)

2/3

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000411520

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ACCESSION NR: AP4010036

SUBMITTED: 01Ju163 DATE ACQ: 14Feb64 ENCL: 00

SUB CODE: HA, PH NO REF SOV: '009 OTHER:: 006

RUBINSHTEYN, A. M.; DULOV, A. A.; PRIBYTKOVA, H. A.

Effect of K₂ O on the activity, selectivity, and electrical properties of alumina-chromia catalysts. Isy AN SSSR Ser Khim no. 4:604-613 Ap *64. (MIRA 17:5)

 Institut organicheskoy khimii im. N. D. Zelinskogo AN SSSR.

ACCESSION NR: AP4037243 8/0062/64/000/005/0909/0912

martin till, martilla i

AUTHOR: Duloy, A. A.; Liogon'kiy, B. I.; Ragimov, A. V.; Slinkin, A. A.; Berlin, A. A.

TITLE: Electrical and magnetic properties of polyarylenequinodes

SOURCE: AN SSSR. Izv. Seriya khimicheskaya, no. 5, 1964, 909-912

TOPIC TAGS: organic semiconductor, semiconducting polymer, polyarylenequinone

ABSTRACT: A study has been made of the electrical and paramagnetic properties of polyarylenequinones (I) with the general formula

XQ-Q

and x-ray diffraction patterns have been recorded. Polymers I

Card 1/3

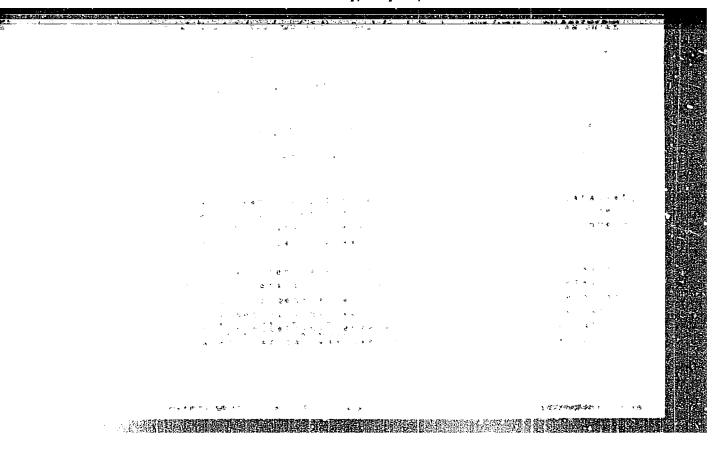
ACCESSION NR: AP4037243

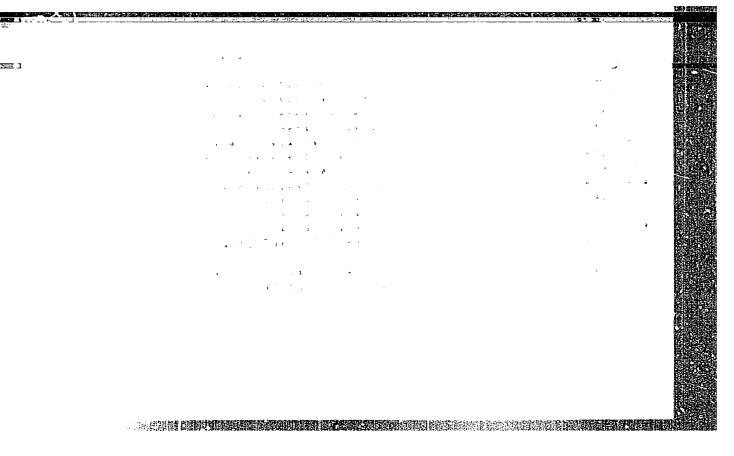
were synthesized from the quinone and the bisdiazotized diamines. Their structure was linear or three-dimensional depending on the reactant ratio (1/1 or 1/3; or 1/1 and cross linked with bensidine). The temperature dependence of d-c electrical conductivity for pellet samples of I was determined in the range 100—350C at 10 mm Hg. A correlation was found between molecular structure, packing density and electrical properties. Reduction of the backbone quinone radicals to the stable semiquinone form resulted in a sharp rise in conductivity (the change in activation energy remained small). This is believed to confirm the participation of unpaired electrons in the conduction process. This research was conducted at the Institute of Chemical Physics, Academy of Sciences SSSR, and the Institute of Organic Chemistry imeni N. D. Felinskiy, Academy of Sciences SSSR. Orig. art. has: 1 formula, 2 figures, and 1 table.

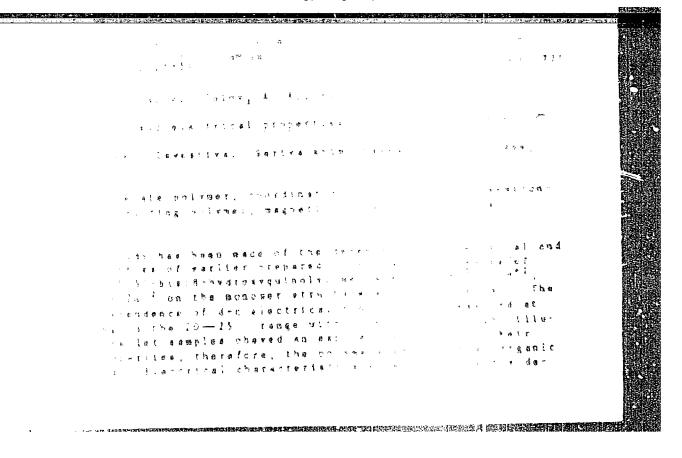
ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics, Academy of Sciences SSSR); Institut organicheskoy khimii im. H. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry, Academy of Sciences SSSR)

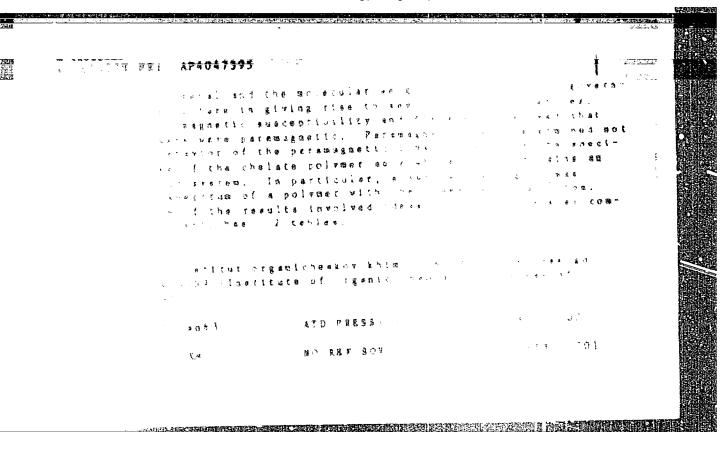
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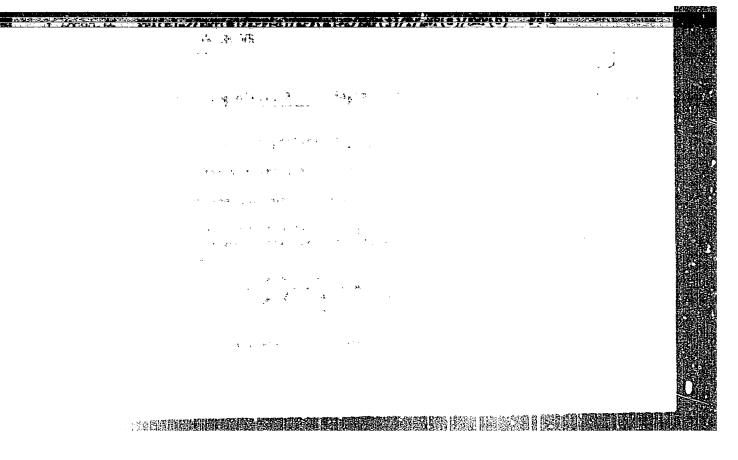
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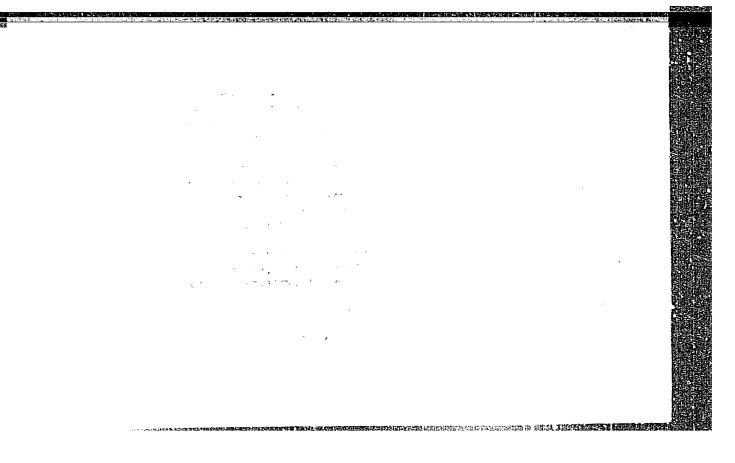












SLINKIN, A.A.; DULOV, A.A.; RUBINSHTEYN, A.M.

Magnetic and electric properties of chelate polymers. Izv. AN SSSR. Ser. khim. no.10:1769-1775 0 '64. (MIRA 17:12)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

L-02972-67 ENT(m)/ENP(j)/T 13P(c) RM

ACC NR. AP6033060

SOURCE CODE: UR/0074/66/035/010/1853/1882

AUTHOR: Duloy, A. A.

ORG: Institute of Organic Chemistry im. N. D. Zelinskiy, AN SSSR, Moscow (Institut organicheskoy khimii AN SSSR)

TITLE: Semiconducting polymers

SOURCE: Uspekhi khimii, v. 35, no. 10, 1966, 1853-1882

TOPIC TAGS: organic semiconductor, semiconducting polymer

ABSTRACT: The state-of-the-art of polymeric organic semiconductors has been reviewed with emphasis on electrical, magnetic, and structural investigations under the following headings: specific properties of semiconducting polymers (chemical structure and morphology, electrical properties, static magnetic susceptibility and wide EPR signal, and narrow EPR signal); nature of EPR signal; electrical conduction mechanism; connection between electrical and magnetic phenomena and generalized theories of specific effects in organic semiconductors. The review is based on 393 references published up to January 1966 and individual papers published at a later date, of which approximately four-fifths are of Communist World origin.

SUB CODE: 07/ SUBM DATE: none/ ORIG REF: 294/ OTH REF: 099/ ATD PRESS: 5099

Card 1/1 29h

UDC: 541.6:541.311.33 '

ACC NR. AP6024413 (N) SOURCE CODE: UR/0020/66/169/001/0111/0113

AUTHOR: Dulov, A. A.; Slinkin, A. A.; Rubinshteyn, A. M.; Kotlyarevskiy, I. L.;
Shvartsberg, H. S.; Andriyevskiy, V. N.; Zanina, A. S.; Shergina, S. I.

ORG: Institute of Organic Chemistry im. N. D. Zelinskiy, Academy of Sciences, SSSR (Institut organicheskoy khimii Akademii nauk SSSR); Institute of Chemical Kinetics and Combustion, Siberian Branch, Academy of Sciences, SSSR (Institut khimicheskoy kinetiki i goreniya Sibirskogo otdeleniya Akademii nauk SSSR)

TITIE: Influence of disturbance of conjugation on the properties of semiconducting polymers to

SOURCE: AN SSSR. Doklady, v. 169, no. 1, 1966, 111-113

TOPIC TAGS: semiconducting polymer, conjugated polymer, semiconductor conductivity

ABSTRACT: It has been frequently reported in the literature that the disturbance of conjugation in organic semiconductors as a result of either noncoplanarity of aromatic rings or introduction of aliphatic, oxygen, or sulfur bridges into the conjugated chain lowers the electric characteristics. In the present paper, the intensity of the influence of these different types of conjugation disturbances was compared in a series of polymers of a single class, the polyarylenepolyacetylenes, whose electrical conductivity of and ESR spectra were measured. The introduction of various groups disturbing the conjugation into the conjugated chain was found to hinder the processes of

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ACC NR: AP6024413

current transfer. The relative effectiveness of this hindering influence of different groups may change with the flexibility of the molecules, which affects the intermolecular interactions. In particular, the biphenylene grouping, which sharply decreases the electric properties of "linear" structures, does not affect the properties of polymers consisting of more flexible oxygen-containing molecules. It is notable that bridge groups do not appreciably lower the semiconducting properties. The paper was presented by Academician Kasanskiy, B. A., 2)Out65. Orig. art. has! I table.

SUB CODE: 07/ SUBM DATE: 23 Jul65/ ORIG REF: 014/ OTH REF: 003

Card 2/2ULR

SHERSHEVSKIY, A.N.; DULOY, A.V.

I.P. Merzheevskii in the medical council! Zhur. nevr. i peikh 59 no.3:
360-361 159 (MIRA 12:4)

1. Kafedra psikhiatrii (nachalinik - prof. A.S. Chistovich) Voyennomeditsinskiy ordena Lemina akademii imeni S.M. Kirova. (BIOORAPHIMS.

Mershevskii, Ivan P. (Rus))

Some recent data on the forensic psychiatric activities of I.M.Balinskii. Emrenevr. i psikh. 59 no.4:493-495 '59. (MIRA 12:6) 1. Kafedra psikhiatrii (nachal'nik - prof.A.S.Chistovich) Voyanno-neditsinskoy ordena Lenina akademii imeni S.M.Kirova. (BIOGRAPHUES, Balinskii, I.M. (Rus))

KEYLOY, I.F.; DULOY, A.Y.

Participation of D.I. Mendeleev in the publication of a manual en legal chemistry; on the one hadred twenty-fifth anniversaty of his birth, Sud.-med.ekspert. 2 no.3:36-40 JL-8 159. (MIRA 13:4)

1. Leningradskiy gosudarstvennyy universitet ineni A.A. Endanova i Belorusskiy gosudarstvennyy universitet ineni V.I. Lenina. (NENDELHEY, DMITRII IVANOVICH, 1834-1907)

DULCY, V. G.

DULCY, V. G. - "Irregular movement of a gas in tubes with a broken cross-sectional surface." Leningrad, 1955. Leningrad Grder of Lenin State U inchi A. A. Zhdanov. (Dinmertations for degree of Candidate of Physicon theoretical Sciences.)

So: Knizhnaya latonia!, No 48. 26 November 1959. Moscow.

SOV/124-58-8-8564

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 33 (USSR)

AUTHOR: Dulov, V.G.

TITLE: The Transient Process of Gas Escape from a Gas Cylinder (Neustano-

vivshiysya protsess istecheniya gaza iz tsilindricheskogo ballona)

PERIODICAL: Vestn. Leningr. un-ta, 1957, Nr 13, pp 132-145

ABSTRACT: An examination is made of the transient one-dimensional motion of an ideal gas inside a cylindrical conduit during the escape of the gas

approximately the indicate district of the complete complete the complete c

10(1) AUTHOR:

Dulov, V.G.

507/43-58-19-8/16

TITLE:

Disintegration of Arbitrary Gas Parameters Rupture in the Jump of the Area of a Section (Raspad proisvol'nogo rasryva

parametrov gaza na skachke ploshchadi secheniya)

Vestnik Leningradskogo universiteta, Seriya matematiki, mekhaniki i astronomii,1958, Nr 19(4),pp 76 - 99 (USSR)

ABSTRACT:

PERIODICAL:

In a tube with sudden variation of the sectional area the author investigates momentary states of gases for which the gas parameters have completely arbitrary different values at both sides of the jump of the cross section. Such states originate e.g. during the passage of a shock wave through the point of the sudden contraction of the tube. The author differentiates 18 different cases which are separately discussed in detail. The most essential supposition of the author is the

assumption that the investigated appearances can be described sufficiently well by the unidimensional theory. The author

thanks I.P. Ginzburg for the interest in his paper.

There are 5 figures, and 5 references, 2 of which are Soviet,

1 German, 1 Italian, and 1 American.

Card 1/2

35107

S/147/61/000/004/004/021 E195/E135

10./4/0 AUTHORS:

Dulov. V.G., and Rayzberg, B.A.

TITLE:

Initial stage of wake formation

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Aviatsionnaya tekhnika, no.4, 1961, 30-33

This work is based on the following scheme of wake TEXT: The shock wave spreads in an axially-symmetrical formation. channel, bounded by solid walls. At the instant t = 0, the wave reaches the outlet and passes into the atmosphere. During this process an infinitely small section of the gas column, which trails the wave, spreads beyond the limits of the channel where an infinitely thin annular break is then formed. The disintegration of this break leads to the formation of a diverging, rapidly decaying subsidiary shockwave, a rarefied wave, disturbing the uniform stream behind the front of the main shockwave and the steady-state break, which constitute the boundaries of the wake. By ignoring the slight bending of the plane of the main wave front, it is possible to consider the formation of the wake as a continuous process resulting from the disintegration. The initial

Initial stage of wake formation

S/147/61/000/004/004/021 E195/E135

parameters of this disintegration may be found from the relations of the "one-dimensional" theory discussed in a paper by K.P. Stanyukovich [Ref.1: Elementy prikladnoy teorii neustanoviv-shikhsya dvizheniy gaza ("Applied theory for non-steady motion of gas"), Oborongiz, M., 1953]. The important relationship between the two pressure ratios \tilde{P}_2 ($\tilde{P}_2 = P_2/P_1$) and \tilde{P} ($\tilde{P} = P/P_1$) is given in the form:

$$\frac{2}{k-1} \left[1 - \frac{\overline{P_2}}{\overline{p}} \right] = \frac{2}{k(k-1)} \frac{\sqrt{1 + \frac{k+1}{k-1} \overline{p}}}{\sqrt{1 + \frac{k+1}{k-1} \overline{P_2}}} - \frac{\overline{P_2} - 1}{\sqrt{\overline{p} \left(\frac{k+1}{k-1} + \overline{p} \right)}}$$
(5)

where: P_2 is the pressure behind the shockwave of disintegration, P_1 is the atmospheric pressure, and P the pressure behind the main shockwave. If the pressure is in the range 2 < P < 200 and the adiabatic exponent K = 1.4, then a linear function $P_2 = 0.24P + 1.2$ may be used; the error due to this approximation does not exceed 10%. Fig. 2 shows a graph representing the Card 2/4

Initial stage of wake formation

5/147/61/000/004/004/021 E195/E135

trajectory of the boundary point of the shockwave and based on $P_0 = 25 \text{ kg/cm}^2$ and K = 1.4.

The form of the zone excited by the movement of the wave is There are 2 figures.

ASSOCIATION: Kafedra aerogazodinamiki, Leningradskiy mekhanicheskiy institut

(Department of Aerogasdynamics, Leningrad Institute

SUBMITTED: November 9, 1960

Card 3/4

39774

S/147/62/000/002/002/020

E031/E435

24,4300

Dulov, V.G.

AUTHOR: TITLE:

An approximate method of calculating axisymmetric supersonic isentropic gas flows for small expansions

of the flow

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy.
Aviatsionnaya tekhnika, no.2, 1962, 8-14

TEXT: Current methods of solving axisymmetric isentropic flow problems are either variations of the method of characteristics or are based on linearized equations and boundary conditions. In a sense, the proposed method brings together these two methods — only a partial linearization is effected but the simplicity of the linearized method is retained. The usefulness is restricted by the requirements of isentropic flow and small expansion. The equations of steady axisymmetric isentropic flow in characteristic coordinates $\frac{1}{5}$, $\frac{1}{7}$ can be given in the form

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S/147/62/000/002/002/020 E031/E435

An approximate method ...

$$\theta_{i} = \frac{\cos^{2}x}{\sin^{3}x - \frac{k-1}{2}} \alpha_{i} + \frac{\sin x \cdot \sin \theta}{\sin (x+\theta)} \cdot \frac{r_{i}}{r} = 0,$$

$$\theta_{i} = \frac{\cos^{3}x}{\sin^{3}x + \frac{k-1}{2}} \alpha_{i} + \frac{\sin x \cdot \sin \theta}{\sin (x-\theta)} \cdot \frac{r_{i}}{r} = 0,$$

$$x_{i} = \operatorname{cig}(\theta + \alpha) \cdot r_{i},$$

$$x_{i} = \operatorname{cig}(\theta - \alpha) \cdot r_{i},$$
(1)

where $\mathcal V$ is the angle between the local velocity vector and the axis of symmetry; α is the Mach angle; r is the distance from the axis of symmetry, x is the distance along that axis and k is the adiabatic index. It is assumed that $\mathcal V$ is small compared with α , so that the following approximations can be made

Card 2/4

An approximate method ...

8/147/62/000/002/002/020 E031/E435

In determining the conditions on the characteristics, cot α is approximated by the linear function $mA\,+\,n$ where

$$\frac{\sin a \cdot \sin b}{\sin (a \pm b)} \Rightarrow 0,$$

$$\cot (0 \pm a) \Rightarrow \pm \cot a.$$

The value of m is given and that of n is not necessary. Eq.(1) now become

$$x_{i} - [W(\eta) - V(i)] \cdot (\ln r^{\frac{m}{2}})_{i} = 0,$$

$$x_{i} + [W(\eta) - V(i)] \cdot (\ln r^{\frac{m}{2}})_{i} = 0.$$
(6)

where $W(\eta)$ and $V(\xi)$ are arbitrary functions. In solving these equations it is assumed that

Card
$$3/4$$
 $\frac{x}{x} = \frac{W(y) + V(l)}{2}$

An approximate method ...

S/147/62/000/002/002/020 E031/E435

The general solution is then

$$x = r \cdot C(\eta) - m W(\eta),$$

$$x = r \cdot D(\ell) - m V(\ell),$$

(7)

where $C(\eta)$ and $D(\frac{\pi}{3})$ are new artitrary functions. The accuracy of the method if evaluated by comparing results with the exact solution for flow from a simple source. For 1.2 < M < 5 and < 30°, the difference between the two solutions is less than 10%. The accuracy improves as k tends to unity. There are 2 figures.

ASSOCIATION: Leningradskiy mekhanicheskiy institut

Kafedra aerogazodinamiki (Leningrad Institute of Mechanics, Department of Aerogazdynamics and Flight Dynamics)

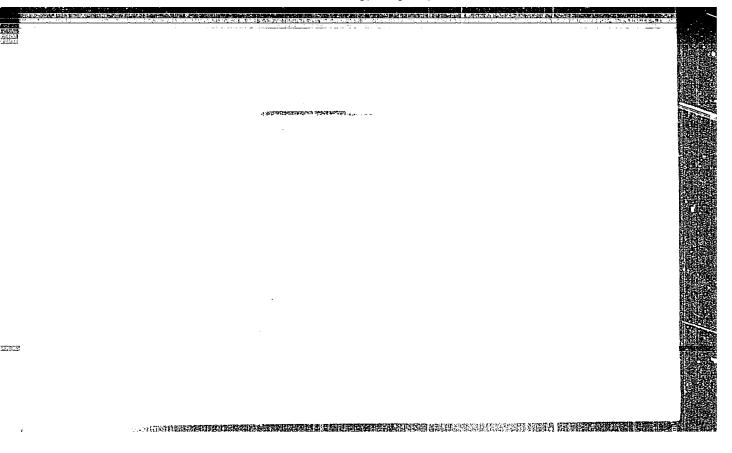
SUBMITTED: June 12, 1961

Card 4/4

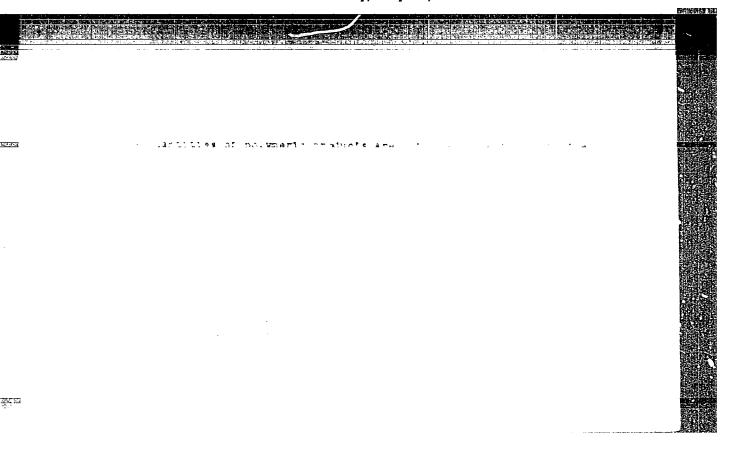
DULOY, V.G.

Propagation of the shock wave in a channel with variable cross section. Izv.vys.ucheb.sav.; av.tekh. 5 no.3:17-24 '62.
(MIRA 15:9)

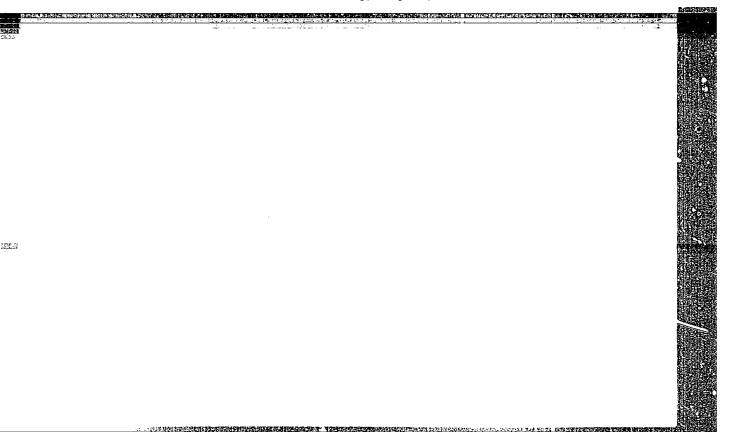
(Shock waves)

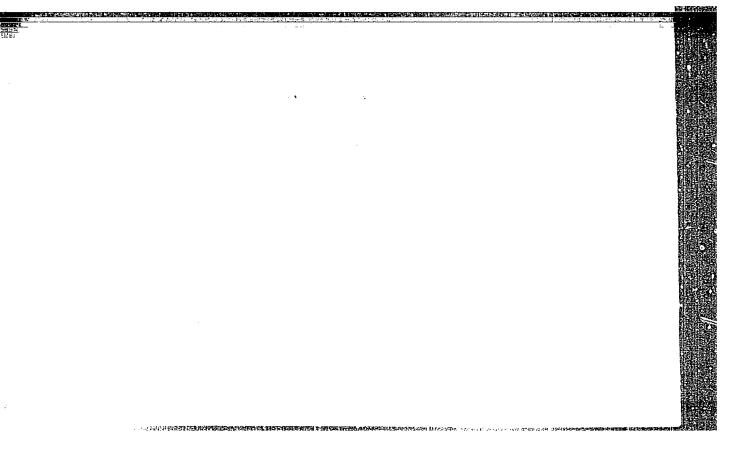


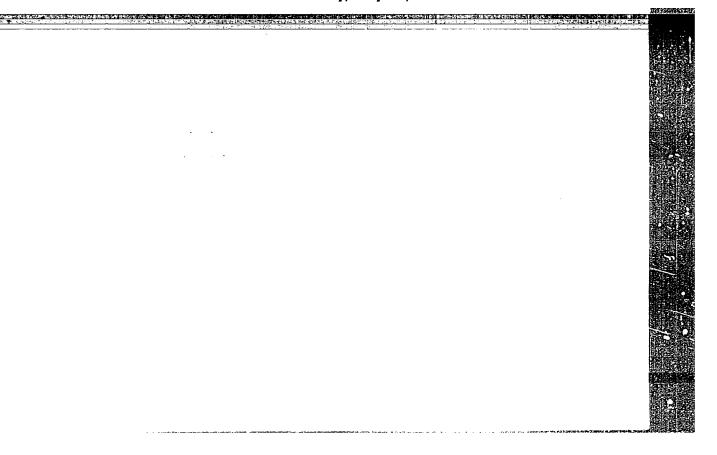
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VOL'PIN, M.Ye.; STRUCHKOV, Yd.T.; VILKOV, L.V.; MASTRYUKOV, V.S.; DULOVA, V.G.; KURSANOV, D.N.

Structure of the products obtained in the reaction of acetylene with bivalent derivatives of germanium. Izv. AN SSSR. Ser. khim. no.11:2067 N '63. (MIRA 17:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

DULOV, V.G. (Nevosibirsk):

"Supersonic flow over blunt-nesed axisymmetric bodies."

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Hoscow, 29 Jan - 5 Peb 64.

ACCESSION NR: AP4041209

S/0207/64/000/003/0164/0166

AUTHOR: Dulov, V. G. (Novosibirsk)

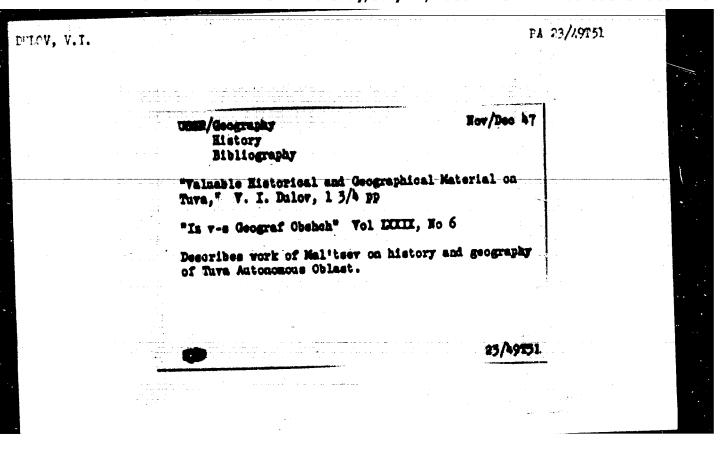
TITLE: Equations of stationary axisymmetric gas flow in the variables "pressure - flow function"

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 3, 1964, 164-166

TOPIC TAGS: axisymmetric gas flow, stationary gas flow, flow function, nonviscous gas, nonconductive gas, equation of state, Monge Ampere equation, momentum flow, supersonic flow, shock wave, ordinary differential equation, blunt body

ABSTRACT: The author transforms the equations of stationary axisymmetric flow of nonviscous and nonheat-conductive gas with an arbitrary equation of state to a form where pressure and the flow function are considered as the independent variables. He introduces the desired function of these variables so that the dynamic equations are exactly satisfied and obtains the Monge-Ampere equation from the equation of continuity for this function, while representing the desired function as the flow of momentum across a line of constant pressure in the direction of the axis of symmetry. The coefficient of resistance of the body of rotation with generatrix is expressed in terms of the value of this function in the form of an arbitrarily chosen flow line, and an example of the computations is given. The approximate distribution of Cord 1/2

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ACCESSION NR: AP404	1209	· · · · · · · · · · · · · · · · · · ·	.*	•••••	Militar and an				į	拉
the parameters betwee flow is found. The suitable for quick consonic flow about a be- the desired function him to reduce this part, has: 2 figures	alculation alculation ody with along the roblem to	n. The su arbitrary e isobar b	thor at	ow accurate the cix. Ap	acy but e probl proxima	is in em of e tion of	elemen xterio: the cl	tary for super	orm of	
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DULOW W.I., prof., doktor istoricheskikh nauk; MORACHEVSKAYA, Ye.W., starshiy bibliograf; SEYFULIW, Kh.M., kand.istoricheskikh nauk; SHAKHUNOVA, P.A., kand.geograf.nauk; POMUS, M.I., otv.red.; DUBOVIKOVA, G.F., red.izd-va; KOVAL SKAYA, I.F., tekhn.red.

[Bibliography of the Tuva Autonomous Province, 1774-1958] Bibliografiia Tuvinskoi avtonomoi eblasti, 1774-1958 gg. Moskva, 1959. 164 p. (MIRA 12:9)

l. Akademiya nauk SSSR. Sovet po isucheniyu proisvoditel'nykh eil. Sektor seti spetsial'nykh bibliotek. 2. Irkutakiy universitet (for Dulov). 3. Sektor seti spetsial'nykh bibliotek MI SSSR (for Morachevskaya). 4. Tuvinskiy nauchno-issledovatel'skiy institut yasyka, literatury i istorii (for Seyfulin). 5. Sovet po isucheniyu proisvoditel'nykh sil AM SSSR (for Shakhunova). (Bibliography-Tuva Autonomous Province)

DULOV. V.I., prof., doktor istoricheskikh nauk; MORACHEYSKAYA, Ye.M., starshiy bibliograf; SETFULIN, Kh.M., kand.istoricheskikh nauk; SHAKHUNOVA, P.A., kand.goegraf.nauk; POMUS, M.I., otv.red.; DUBOVIKOVA, G.F., red.isd-va; KOVAL'SKAYA, I.F., tekhn.red.

[Bibliography of Tuva Autonomous Province, 1774-1958] Bibliografiia Tuvinskoi avtonomoi oblasti, 1774-1958 gg. Moskva, Isd-vo Akad.nsuk SSSR, 1959. 166 p. (MIRA 12:12)

1. Kysyl. Tuvinskiy nauchno-issledovatel'skiy institut yasyka, literatury i istorii. 2. Irkutskiy universitet (for Dulov).

3. Sektor seti spetsiel'nym bilikteta (for Morachevskaya).

4. Tuvinskiy nauchno-issledovatel'skiy institut yasyka, literatury i istorii (for Seyfulin). 5. Sovet po isucheniyu pro-isvoditel'nykh sil (for Shekhmova).

(Bibliography-Tuva kutonomous Province)

(Tuva Autonomous Province-Bibliography)

DULOV V.I.

Literature on the history of Siberia published in 1960; a brief critico-bibliographical survey. Isv.Sib.otd.AN SSSR no.8:131-(MIRA 14:8)
135 '61.
(Bibliography—Siberia—History)
(Siberia—History—Bibliography)

DULOVA, V.G.

AHIRIAMOV, K.A.; ZHIMMOV, A.A.; KURASHEVA, W.A.; DULOVA, V.G.

Synthesis of polyorganosiloxane aluminum oxanes and polyorganosiloxane titanium oxanes. Dokl.AN SSSR 112 no.6:1050-1052 F '57. (MIRA 10:5)

1.Chlen-korrespondent Akademii nauk SSSR (for Andrianov). (Silozanes) (Organometallic compounds)

AUTHORS:

Andrianov, K. A., Dulove, V. G.

62-58-5-23/27

TITLE:

Synthesis of Some Derivatives of Trimethyl-Siloxytitanium (Sinter nekotorykh proizvodnykh trimetilsiloksititana)

PERIODICAL:

Izvestiya Akdemii Nauk SSSR, Otdeleniye Khimicheskikh Nauk, 1958, Nr 5, pp. 644-646 (USSR)

ABSTRACT:

The authors achieved the synthetization of some new compounds containing the -Si-O-Ti- grouping. The sole compound of this type was described by Inglish and Sommer (Ref 1). As already described by the authors in previous reports, this compound may be obtained by means of interaction of TiCl₄ with trimethylsilane. In the present report, the synthesis of tetra-(trimethyl-siloxy)titanium and the previously unknown chlorinesubstituents of trimethyl-siloxytitanium is described. Di-(trimethyl-siloxy)dichlorotitanium was obtained by the action of TiCl on tetra(trimethylsiloxy)titanium. The mixed ether of tri(trimethylsiloxy)butoxytitanium was synthetized by means of the reaction of tri(trimethyl-siloxy)chlorotitanium with n--butyl-alcohol. There are 1 table and 4 references, 2 of which

Card 1/2

are Soviet.

Synthesis of Some Derivatives of Trimethyl-Siloxytitanium

62-58-5-23/27

ASSOCIATION:

Institut elementoorganicheskikh soyedineniy Akademii nauk

SSSR (Institute for Elsmental-organic Compounds AS USSR)

SUBMITTED:

January 3, 1958

1. Cyclic compounds—Synthesis 2. Cyclic compounds—Chemical

reactions

Card 2/2

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SOV/20-128-5-24/67

Vol'pin, M. Ye., Dulova, V. G., Kursanov, D. N., Corresponding

Member, AS USSR -

TITLE:

Formation of Tropilium in the Reaction of Monohalocarbenes

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 5,

pp 951 - 952 (USSR)

ABSTRACT:

The reaction of hydrogen peroxide with tropilium salts causes the elimination of one carbon atom and benzene formation as was proved by the authors some time ago (Ref 1). An inverse reaction, however, has so far not been known (extension of the benzene cycle with the formation of a tropilium cation). There exist only indirect data (Ref 2). The authors have proved that small quantities of tropilium bromide are formed in all case if potassium tert-butylate acts on CH2Cl2, CH2Br2 or

CH2J2 in a benzene medium and hydrogen bromide treatment follows.

This may be explained by intermediate formation of the monohalocarbenes CHX and their interaction with benzens (see Diagram). The concentration of the initial substances and the

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. SOV/20-128-5-24/67 Formation of Tropilium in the Reaction of Monohalocarbenes With Benzene

> duration of reaction are of no importance for the yield. The tropilium yield increases slightly with temperature. The reaction investigated by the authors is the first case of formation of nonsubstituted monohalocarbenes observed. The rate of alcoholysis of haloid methylenes increases following the S_{H}^{2} mechanism according to the order $CH_2Cl_2 < CH_2Br_2 < CH_2J_2$ (Ref 4) whereas the yield of the tropilium salt increases in inverse order (in agreement with reference 5). There are 6 references, 2 of which are Soviet.

ASSOCIATION:

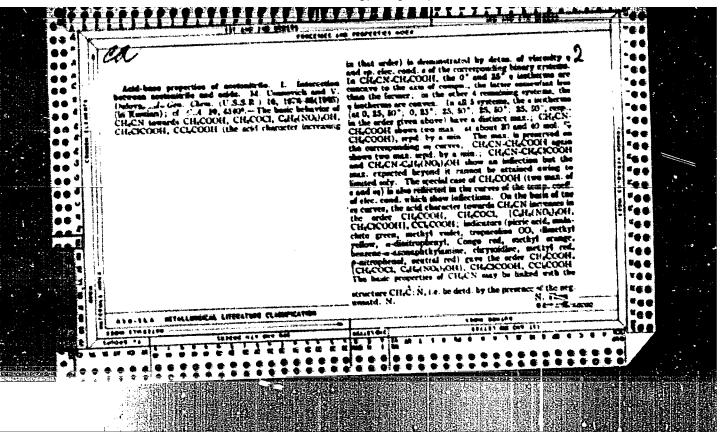
Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental-organic Compounds of the Academy of Sciences, USSR)

SUBMITTED:

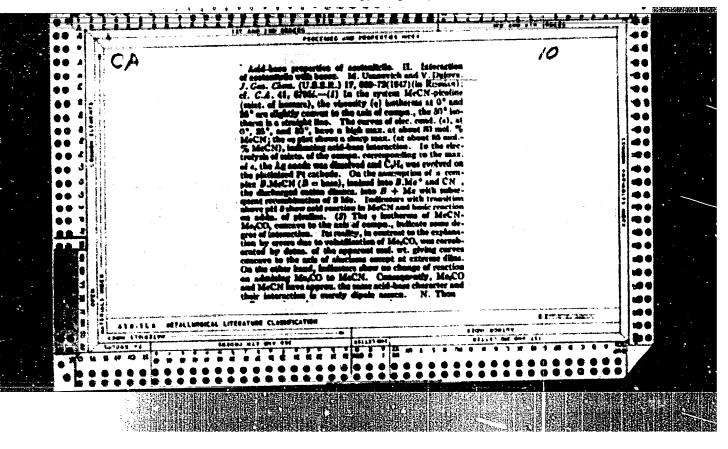
June 29, 1959

Card 2/2

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041152



DULOVA, V.I. AND VOSTRILOVA, N.V.

Dulova, V.I. and Vostrilova, N.V. "Spectrephotometric determination of the dissociation constants of acids and also establishment of the transition constants of indicators in the solutions," Doklady Akad. nauk USSSR, 1948, No. 12, p. 14-17 --- Summary in Usbek --- Bibliog: p. 17

SO: U-3566, 15 March, 53, (Letopis 'Zhurnal'nykh Statey, No. 14, 1949).

DULOVA, V. I. (Co-author)

See: VOSTRILOVA, N. B.

Dulova, V. I. and Vostrilova, N. B. - "Spectrophotometric determination of the dissociation constants of acids and bases, and of the constants for the transformation of indicators in solutions", (Report), Scobshch. o nauch. rabotakh chlenov Vsesoyuz. khim. o-va im. Mendeleyeva, 1949, Issue 1, p. 15-17.

SO: U-1630, 16 Sept. 53, (Letopis 'Zhurnal 'nykh Statey, No. 23, 1919).